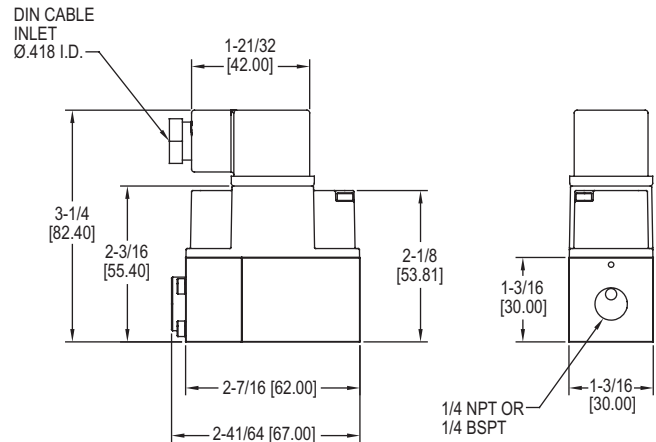
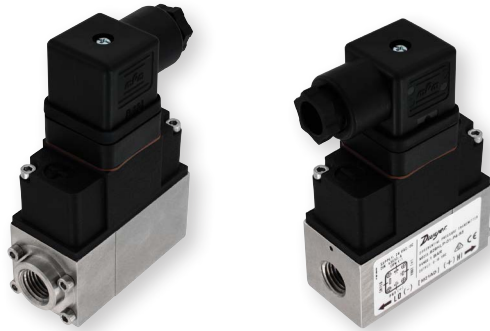


# DIFFERENTIAL PRESSURE TRANSMITTERS

## High Accuracy, IP65 Enclosure



The **Series 629HLP Differential Pressure Transmitters** are suitable for measuring over-pressure, under-pressure, and differential pressure in compatible gases and liquids with 1% accuracy. The 629HLP is suitable for all measuring tasks in commercial, industrial or sanitary applications. Its single sensor design, allows it to measure small increment pressure changes, and converts them to a linear analog output signal from 4 to 20 mA or 0 to 10 VDC.

### FEATURES/BENEFITS

- Rugged, versatile, high accuracy device
- For liquid or gas systems requiring precise measurements
- Provide excellent response and reliability
- Suitable for static and dynamic measurements
- Converts pressure changes into 4 to 20 mA or 0 to 10 VDC output
- Compact, lightweight, capable to be installed in any arrangement making installation very simple

### APPLICATIONS

- Heat exchangers
- Fan coils/air handlers
- Core testing applications
- Hydraulic systems
- High line pressures/low DP
- Pumps
- Commercial/industrial processes
- Sanitary process

MODEL CHART						
Example	629HLP	-01	-P2	-S1	-FC	629HLP-01-P2-S1-FC
Series	629HLP					Differential pressure transmitter
Range		01				0 to 1 bar
		02				0 to 2.5 bar
		04				0 to 4 bar
		06				0 to 6 bar
		15				0 to 15 psi
		30				0 to 30 psi
		60				0 to 60 psi
		90				0 to 90 psi
Process Connections			P2			1/4" female NPT
			P4			1/4" female BPST
Output Signal				S1		4 to 20 mA
				S5		0 to 10 VDC
Options					FC	Factory calibration
					NIST	NIST certificate

**Note:** PSI ranges available upon request. Contact factory for details.

### SPECIFICATIONS

**Service:** Compatible gases or liquids.  
**Wetted Material:** 304 SS.  
**Housing Material:** ABS.  
**Enclosure Rating:** IP65.  
**Accuracy:** ±1% from -5 to 60°C (23 to 140°F).  
**Stability:** ±1% FS/year.  
**Temperature Limits:** Ambient: -10 to 60°C (14 to 122°F); Process: -10 to 80°C (14 to 176°F).  
**Relative Humidity:** 10% to 90% non-condensing.  
**Installation Position:** Not position sensitive.  
**Pressure Limits:** See Pressure Range Limits chart.  
**Burst Pressure:** See Pressure Range Limits chart.  
**Static Pressure Limits:** See Pressure Range Limits chart.  
**Output Signal:** 4 to 20 mA, 0 to 10 VDC.  
**Response Time:** 50 ms.  
**Rated Supply Voltage:** 0 to 10 VDC Output: 12 to 36 VDC or 12 to 32 VAC (@ Max load of 2k Ω) 4 to 20mA output: 8 to 36 VDC.  
**Max Loop resistance:** (Supply Voltage – 8 V) / 0.02 for 4 to 20mA output.  
**Power Consumption:**  $V_{out} = 13 \text{ mA max, } I_{out} = 24 \text{ mA max.}$   
**Electrical Connections:** Form A DIN 43650.  
**Process Connections:** 1/4" female NPT, 1/4" female BSPT.  
**Weight:** 1 lb 4 oz (567 g).  
**Approvals:** CE, RCM.

### PRESSURE RANGE LIMITS

Pressure Range	Maximum Static Pressure (bars)	*Maximum Differential Over Pressure	**Burst Differential Pressure
0 to 1 bar	25 bar	5 bar	8 bar
0 to 2.5 bar	25 bar	5 bar	8 bar
0 to 4 bar	25 bar	12 bar	18 bar
0 to 6 bar	25 bar	12 bar	18 bar
0 to 15 psi	360 psi	70 psi	115 psi
0 to 30 psi	360 psi	70 psi	115 psi
0 to 60 psi	360 psi	174 psi	260 psi
0 to 90 psi	360 psi	174 psi	260 psi

**Note:** \*The differential pressure limit, between high and low ports, that the transmitter can withstand without affecting transmitter performance  
**\*\***Differential pressures between high and low ports that exceed overpressure limits will result in permanent diaphragm deformation, and any pressure higher than the burst pressure limits will rupture the diaphragm.

### ACCESSORIES

Model	Description
A-629HLP-BKT	Mounting bracket kit
BBV-1B	3-Valve block manifold
A-228	12" SS flex hose